



*The National Cyber League - Where Cybersecurity is a Passion*

## NCL Spring 2017 Postseason Scouting Report

Dear team XSS(Cross Site Security),

Congratulations on a great NCL Spring 2017 Postseason!

### National Cyber League (NCL)

The NCL was founded in May 2011 to provide an ongoing virtual training ground for collegiate students to develop, practice, and validate their cybersecurity skills. Using lab exercises designed around industry-recognized performance-based exam objectives and aligned with individual and team games, the NCL is a first-of-its-kind ongoing experiment in learning and gaming using next-generation high-fidelity simulation environments. Learn more about the NCL at [www.nationalcyberleague.org](http://www.nationalcyberleague.org). If you are interested in validating the information in this report, explore the 2017 Spring season at [www.nationalcyberleague.org/spring-season](http://www.nationalcyberleague.org/spring-season) or inquire at [info@nationalcyberleague.org](mailto:info@nationalcyberleague.org).

### NCL Spring 2017 Postseason

The NCL Spring 2017 Season was designed to develop and validate player knowledge and skills in preparation for further learning, career readiness, industry certifications, and other cybersecurity competitions. Hosted lab exercises in the NCL Gymnasiums were made available to all players and coaches and aligned to the games. Both the lab exercises and games were designed around performance-based exam objectives of the CompTIA Security+™ and EC-Council Certified Ethical Hacker (CEH)™ certifications.

Following the Regular Season, the Regular Season scores of each member of every team in the Post Season were averaged in order to place them into one of the three competition brackets for the Post Season: Gold (top 15% of all teams nationally - 20 teams), Silver (the next 35% of all teams nationally - 46 teams) or Bronze (the next 50% of all teams nationally - 65 teams)

At the beginning of the Spring 2017 Season, 1,891 students/players (up from 978 in 2016) and 269 faculty/coaches (up from 214 in 2016) from 291 two- and four-year schools in 43 U.S. states (up from 40 in 2016) registered to play in the Preseason/Regular Season.

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There was one Capture the Flag (CTF) Regular Season game optimized for individuals: April 21 through April 23, which was conducted in real-time, during the same time window, for students across the country.

There was one virtual National Championship Postseason game, optimized for organized team play, April 28 through April 30. The event included 152 teams from 108 college/universities in 35 states.

## NCL Scouting Report

What follows is a customized NCL Scouting Report of your team's Post Season performance. We hope you find it to be valuable in both confirming the skills you demonstrated competencies in, as well as identifying areas for improvement. In addition, the NCL Scouting Report can be used as part of any job application, as it provides an external validation of skills as demonstrated in competitive game play based on industry-recognized certification performance-based exam objectives.

The following definitions apply to your performance across a range of games, optimized for teams:

- **Bracket:** Gold, Silver, or Bronze; based on the Preseason Round
- **Bracket Rank:** overall nationally, by Bracket
- **National Rank:** overall place with respect to all teams, across all Brackets
- **Total Score:** total combined flag points; the higher the score, the higher the ranking
- **Total Flag Captures:** the combined number of successful flag captures/submissions
- **Total Flag Attempts:** the combined number of flags submitted to the Cyber Skyline Platform
- **Accuracy:** percentage of flag submissions that were correct. Formula: Total Flag Captures divided by Total Flag Attempts

## NCL Spring 2017 Postseason

The top team for NCL Spring 2017 Postseason captured 148 flags out of 153 total flags, scoring 4150 points out of 4550 total points, and had an accuracy of 90.24%. On average, teams in this round captured 83 flags, 1655 points, and had an accuracy of 60.20%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	5	6	3,580	138	165	83.64%

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## Individual Competencies

The following tables show rank by Bracket and overall, based on the following competencies measured in the Post Season games:

1. Cryptography
2. Enumeration and Exploitation
3. Log Analysis
4. Network Traffic Analysis
5. Open Source Intelligence
6. Password Cracking
7. Scanning
8. Web Application Exploitation
9. Wireless Access Exploitation

### Cryptography

The top team for Cryptography captured 19 flags out of 19 total flags, scoring 680 points out of 680 total points, and had an accuracy of 100.00%. On average, teams captured 9 flags, scored 262 points, and had an accuracy of 63.89%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	5	8	580	17	19	89.47%

### Enumeration and Exploitation

The top team for Enumeration and Exploitation captured 5 flags out of 5 total flags, scoring 510 points out of 510 total points, and had an accuracy of 83.33%. On average, teams captured 1 flags, scored 57 points, and had an accuracy of 46.48%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	5	9	310	4	4	100.00%

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## Log Analysis

The top team for Log Analysis captured 16 flags out of 16 total flags, scoring 500 points out of 500 total points, and had an accuracy of 80.00%. On average, teams captured 7 flags, scored 179 points, and had an accuracy of 43.39%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	12	30	300	14	19	73.68%

## Network Traffic Analysis

The top team for Network Traffic Analysis captured 22 flags out of 22 total flags, scoring 610 points out of 610 total points, and had an accuracy of 91.67%. On average, teams captured 11 flags, scored 188 points, and had an accuracy of 47.14%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	5	7	590	21	37	56.76%

## Open Source Intelligence

The top team for Open Source Intelligence captured 22 flags out of 22 total flags, scoring 185 points out of 185 total points, and had an accuracy of 100.00%. On average, teams captured 19 flags, scored 142 points, and had an accuracy of 57.50%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	4	8	185	22	24	91.67%

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## Password Cracking

The top team for Password Cracking captured 28 flags out of 28 total flags, scoring 750 points out of 750 total points, and had an accuracy of 100.00%. On average, teams captured 16 flags, scored 341 points, and had an accuracy of 91.94%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	9	12	675	27	27	100.00%

## Scanning

The top team for Scanning captured 18 flags out of 18 total flags, scoring 350 points out of 350 total points, and had an accuracy of 100.00%. On average, teams captured 11 flags, scored 166 points, and had an accuracy of 59.18%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	4	5	350	18	19	94.74%

## Web Application Exploitation

The top team for Web Application Exploitation captured 7 flags out of 8 total flags, scoring 240 points out of 440 total points, and had an accuracy of 100.00%. On average, teams captured 1 flags, scored 25 points, and had an accuracy of 37.97%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	8	14	85	2	3	66.67%

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## Wireless Access Exploitation

The top team for Wireless Access Exploitation captured 14 flags out of 14 total flags, scoring 375 points out of 375 total points, and had an accuracy of 100.00%. On average, teams captured 6 flags, scored 154 points, and had an accuracy of 74.12%.

Bracket	Bracket Rank	National Rank	Total Score	Total Flag Captures	Total Flag Attempts	Accuracy
Gold	11	25	355	12	12	100.00%

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Thank you for your participation in the NCL Spring 2017 Postseason! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

Casey W. O'Brien  
NCL Commissioner

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